

STATUS SCIENTIFIC CONTROLS

FGD5/6 - IR

STATUS



SCIENTIFIC

Incorporated
since 1988

**INTRODUCING A TOTALLY ENCLOSED
INFRARED GAS DETECTOR**

For direct replacement of oil & gas industry pellistors

★ **NO ROUTINE
MAINTENANCE
REQUIRED**

★ **LOWEST OPERATING
COSTS**

★ Routine gas testing only is required -
because the test gas is applied externally,
all physical and electrical elements of the
instrument are tested to confirm continued
safe operation.

SHELL THORNTON
LABORATORY
TESTED AND APPROVED



Plug-in
Infrared Sensor



ACTUAL SIZE

★ **LOWEST PRICE
IR DETECTOR**

★ **SMALLEST SIZE
IR DETECTOR**

★ **ELIMINATES ALL
POISONING PROBLEMS
ASSOCIATED WITH
PELLISTORS**

**UK and International
Patents Pending**

FEATURES

- ★ **MTBF OF 10 YEARS**
- ★ **COMPATIBLE WITH INDUSTRY
STANDARD CONTROL PANELS**
- ★ **REMOTE GAS TESTING FACILITY**
- ★ **CONSTRUCTED IN GRADE 316
STAINLESS STEEL & NYLON**

- ★ **SELF HEATING - TO PROTECT
AGAINST OBSCURATION**
- ★ **DOES NOT UTILISE MIRRORS
LENSES OR SEPARATE HEATERS**
- ★ **OUTPUT SIGNAL CAN BE SET
AS RISING OR FALLING**



Specification

Size	: Body 94mm long x 50mm diameter, thread 20mm long Overall body length with weatherguard fitted = 170mm
Material	: Sensor Body – Stainless Steel Grade 316 Weatherguard – Stainless Steel Grade 304 & Nylon 66
Mounting thread	: M20 X 1.5 or M25 X 1.5 or ½" NPT
Weight	: 1Kg including weatherguard
Gas types	: Hydrocarbons (Note – Infrared sensors have no response to Hydrogen)
Operating voltage at detector head	: 3.2 to 7.5 volts dc
Maximum short term overload voltage	: 24 volts dc
Recommended operating current	: 160 to 200mA
Output signal	: 15 to 30 mV / % CH ₄ (Supplied as 20 mV / % CH ₄ unless otherwise requested)
Sensor type	: NDIR Infrared
Measurement range	: 0 – 100% LEL (5% vol. CH ₄) or 0 – 100% volume CH ₄
Response time	: Typically T ₉₀ < 30 sec (CH ₄)
Measurement resolution	: 1% LEL or 1% volume (CH ₄)
IP rating	: Enclosure IP66, Sensor IP65
Operating temperature	: - 20 to +50 °C
Humidity range	: 0 to 95% RH non-condensing
Operating pressure	: Atmospheric + or - 10%
Performance standards	: EN 61779-1:2000, EN 61779-4:2000, EN 61779-5:2000

N.B. Please discuss with your Technical Sales Advisor the target gas and measurement range.

European Hazardous Area 'ATEX' Certification

Standards	: EN50014: 1997 EN50018: 2000
Certification code	: II 2 G EEx d IIC T4 (-20°C<Ta<+60°C)
Certificate number	: KEMA 03ATEX2247U
Zones	: 1 & 2

Connections:-

- Red** V+
- Black** 0 volts
- Green** Signal, proportional to gas level
- Blue** Signal direction:
Falling, connect to 0v (Black)
Rising, connect to V+ (Red)
- Green / Yellow** - Earth

SENSING HEAD MOUNTED IN ASSOCIATED WEATHERGUARD - CONSTRUCTED IN GRADE 304 STAINLESS STEEL AND NYLON



SENSOR AND WEATHERGUARD WITH GAS TESTING FACILITY

Mounted vertically to maximise resistance to water ingress

OVERALL LENGTH WHEN MOUNTED IN WEATHERGUARD = 170mm (6 ¾")

Push-in connector suitable for 6mm O/D tubing to facilitate remote gas testing

www.status-scientific.com

STATUS SCIENTIFIC CONTROLS LTD

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